

**Notice of Allowability**

Application No.

10/658,858

Examiner

Gail Verbitsky

Applicant(s)

MATTOON ET AL.

Art Unit

2859

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to \_\_\_\_\_.
2. ☒ The allowed claim(s) is/are 1-10.
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☒ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☒ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☒ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Puntigam on February 11, 2005.

#### ***Drawings***

The following changes to the drawings have been approved by the examiner and agreed upon by applicant: Applicant should provide substitute drawings including Fig. 3 having a layout in the form of a block-diagram. In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

#### **Examiner's Statement of Reasons for Allowance**

2. Claims 1- 6 are allowed because the prior art fail to teach a system for improving noise immunity for a resistive temperature device comprising a plurality of low pass filters associated with a plurality of RTDs, wherein when the voltage across an RTD is applied to its associated low pass filter, the low pass filter charges over time, wherein the voltage on the low pass filter is not used in calculating resistance of an RTD until the low pass filter associated with the RTD reaches a preselected level of charge wherein the plurality of low pass filters are charged in turn and the voltage thereon sampled; and

Art Unit: 2859

a system for successively precharging low pass filters associated with successive RTDs prior to sampling, in combination with the remaining limitation of claims 1-6.

2. Claims 7-10 are allowed because the prior art fail to teach a system for improving noise immunity for a resistive temperature device comprising a plurality of low pass filters associated with a plurality of RTDs, wherein the low pass filters are charged only to a selected level which is less than a full charge level before voltage sampling thereof is carried out; and at least one RTD calibration resistor and a low pass filter associated therewith, the calibration resistor having a preselected value and connected such that voltage sampling of the low pass filter associated with the RTD and the low pass filter associated with the calibration resistor are made at the same level of charge of the low pass filters prior to full charge, the sampled voltage values being used to produce a resulting value which is correlated with a voltage value produced when the low pass filter associated with the RTD is fully charged, in combination with the remaining limitation of claims 7-10.

### **Conclusion**

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art cited in the PTO-892 and not mentioned above disclose related devices and methods.

Any inquiry concerning this communication should be directed to the Examiner Verbitsky who can be reached at (571) 272-2253 Monday through Friday 8:00 to 4:00 ET.

GKV

Gail Verbitsky

Primary Patent Examiner, TC 2800



February 11, 2005